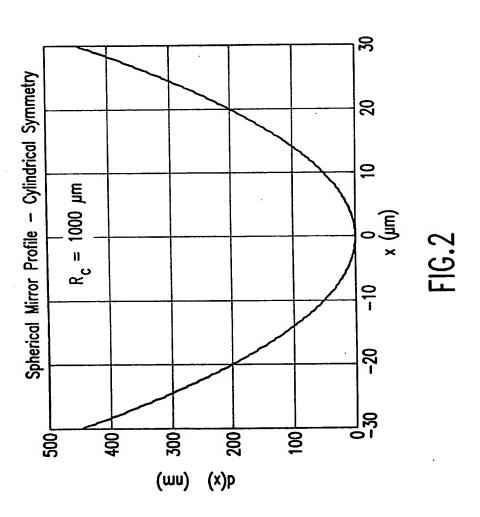
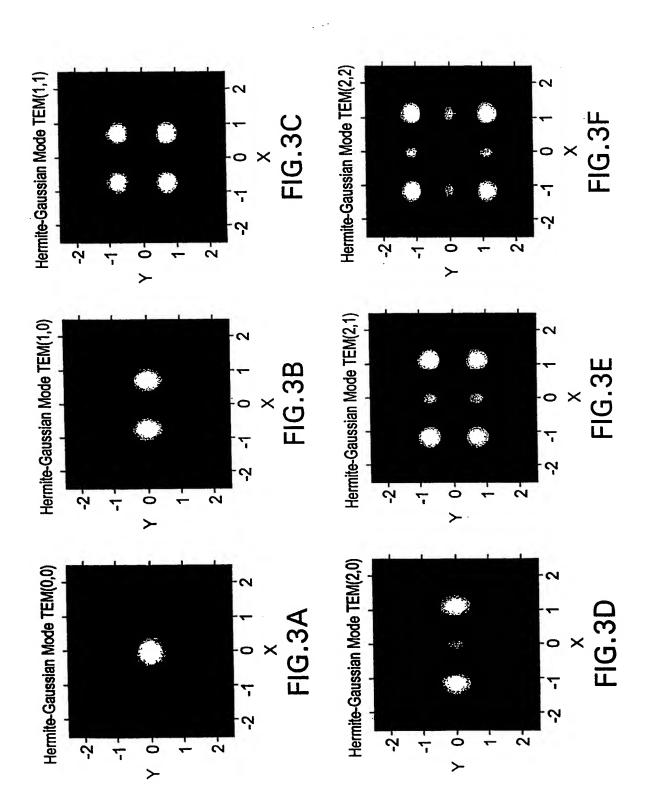
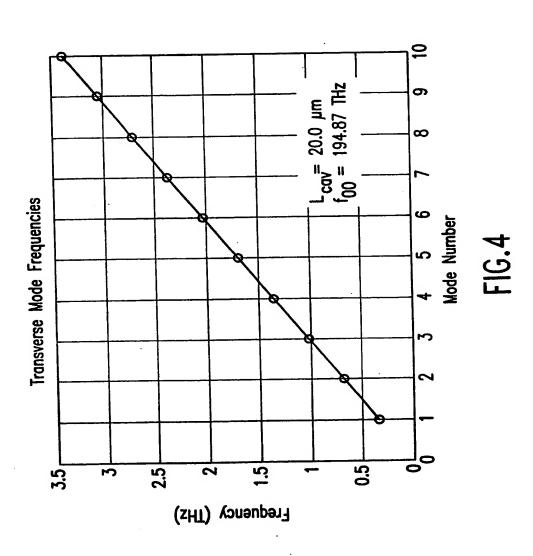
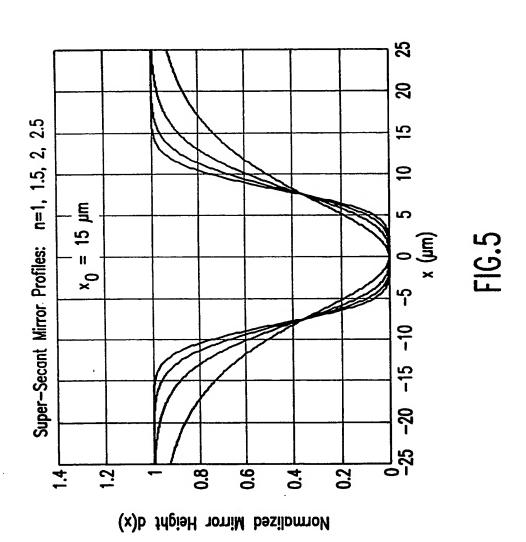


Inventor: Mark E. Kuznetsov

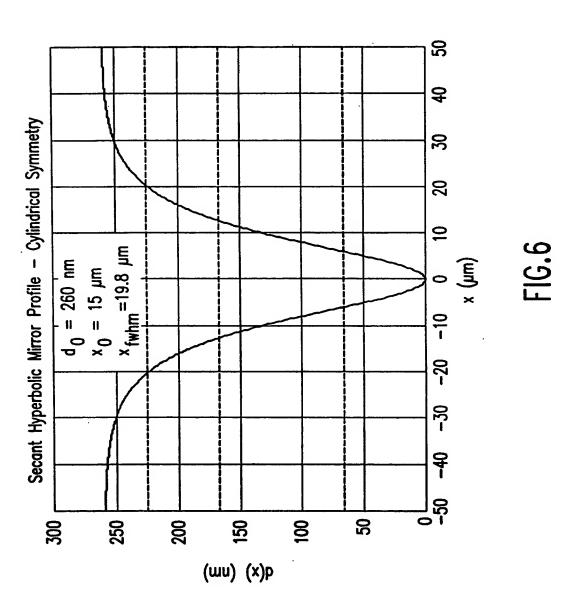


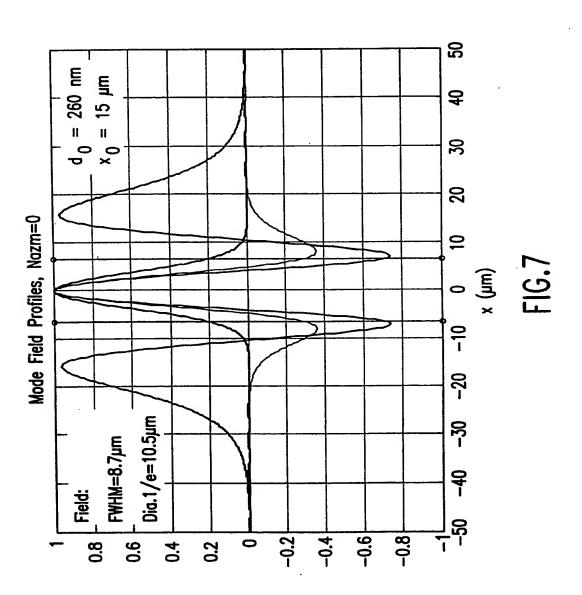


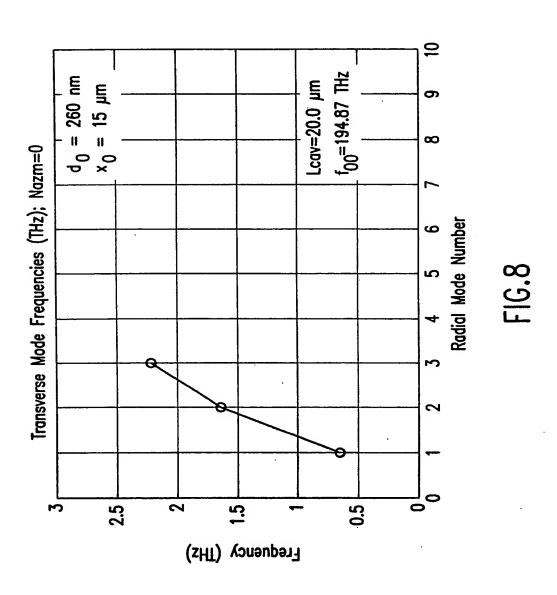


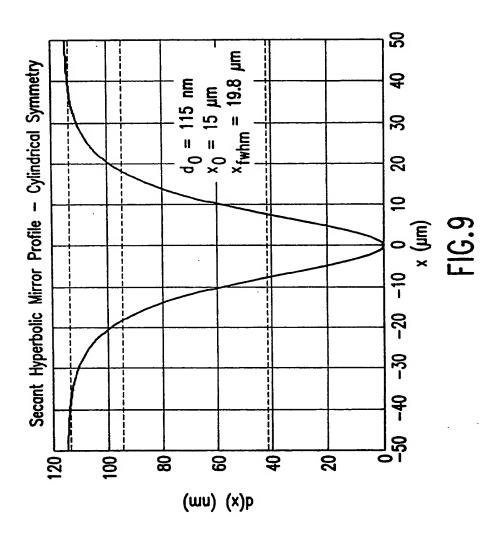


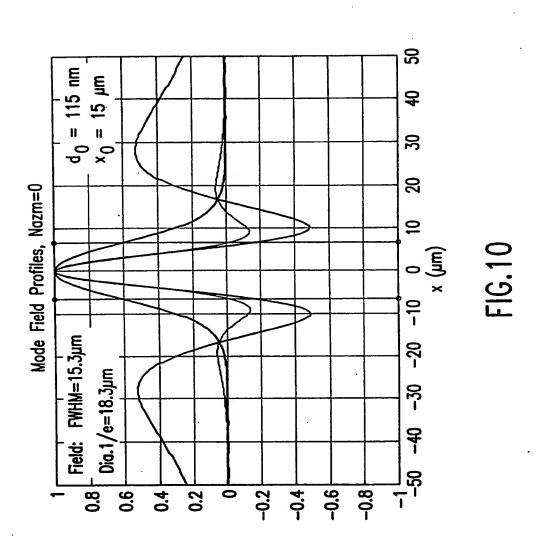
Inventor: Mark E. Kuznetsov

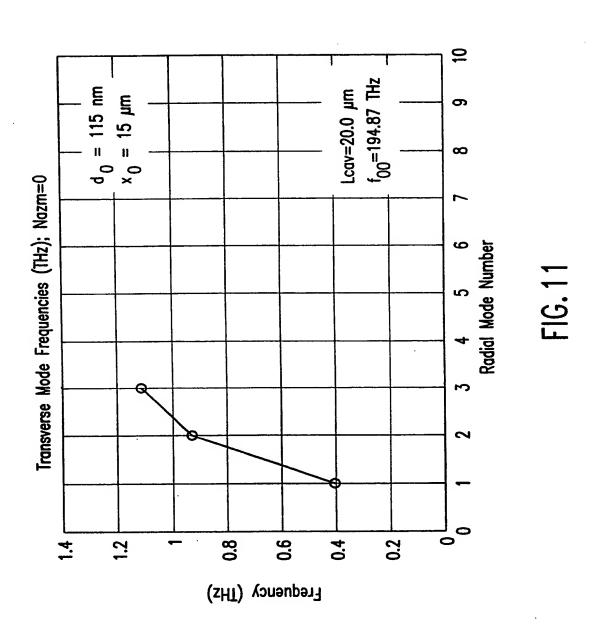


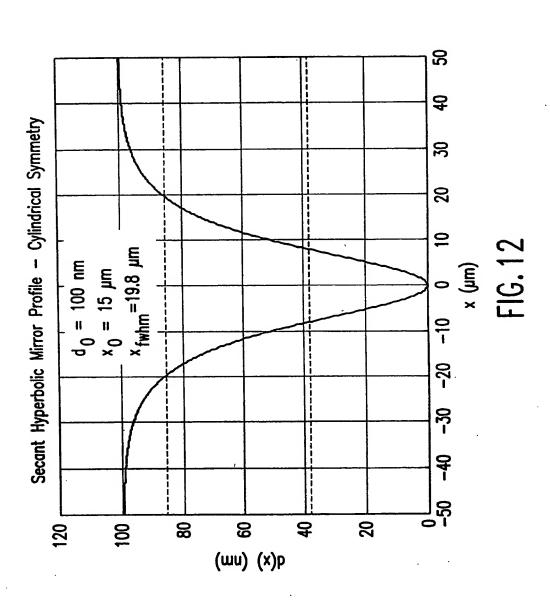






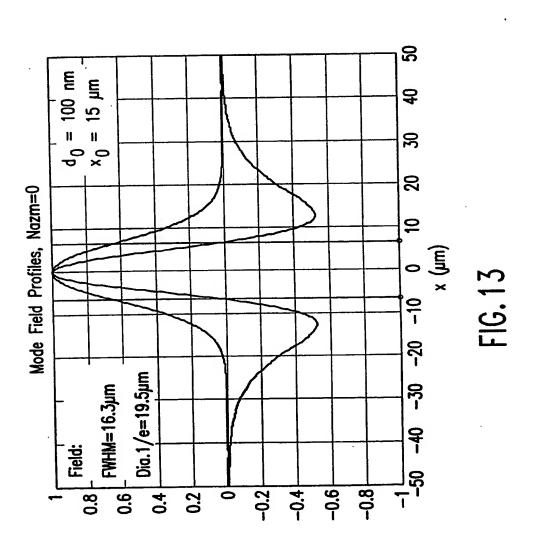


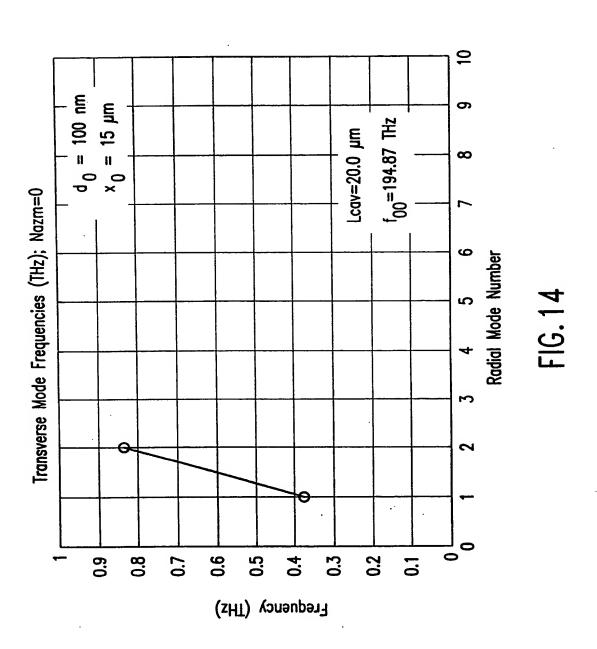




Inventor: Mark E. Kuznetsov

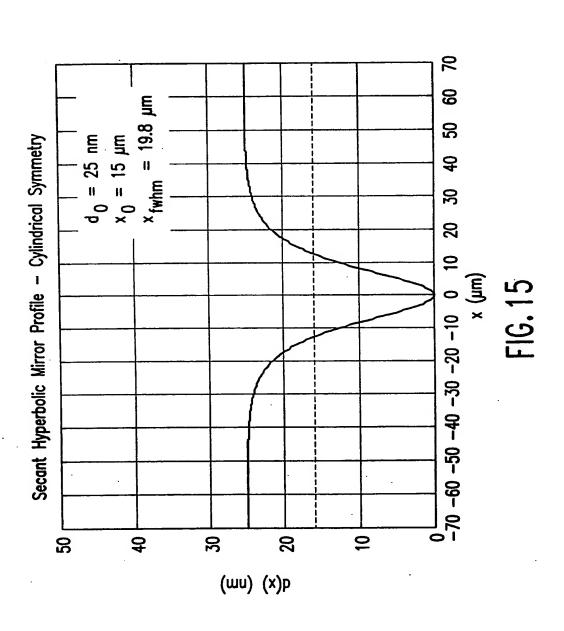
13/61



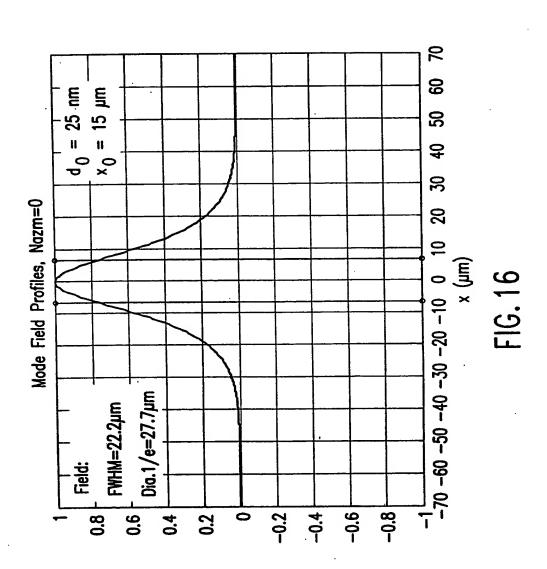


Inventor: Mark E. Kuznetsov

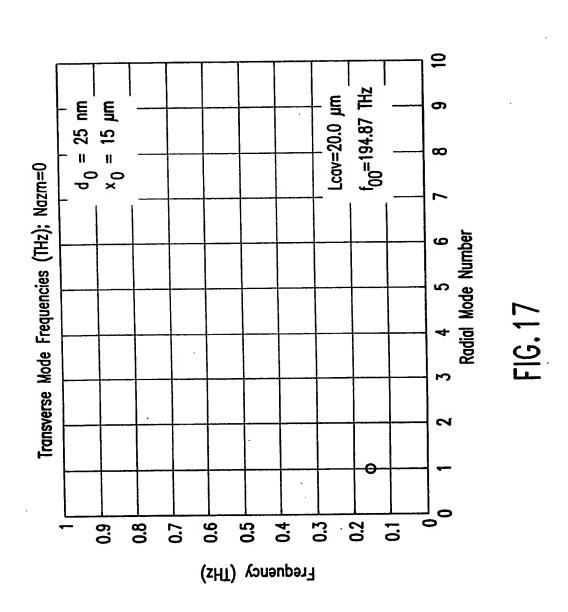
15/61



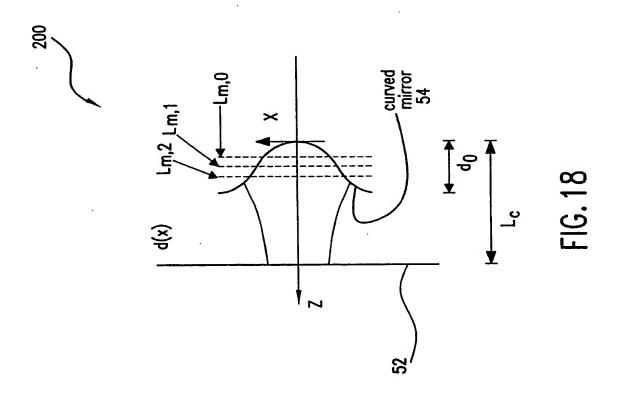
16/61

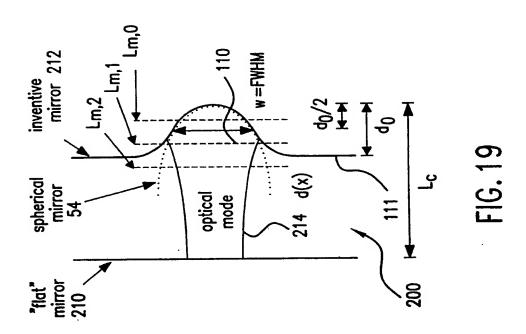


Inventor: Mark E. Kuznetsov

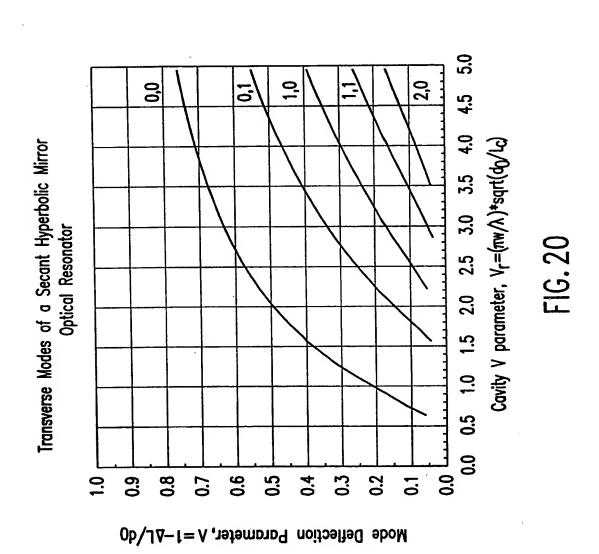


18/61

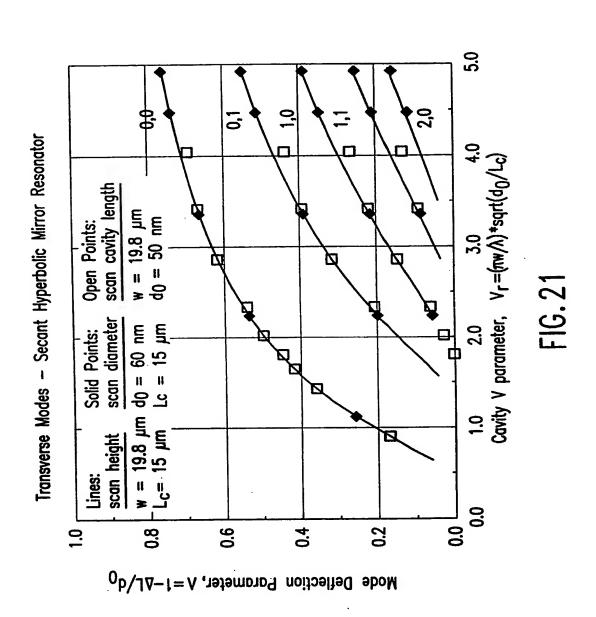


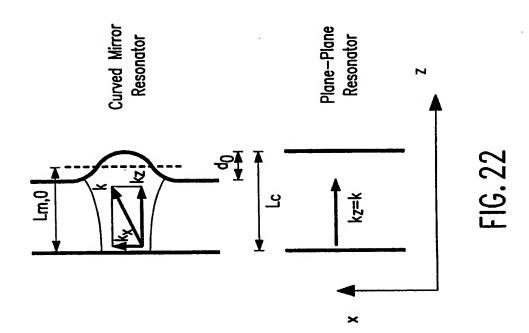


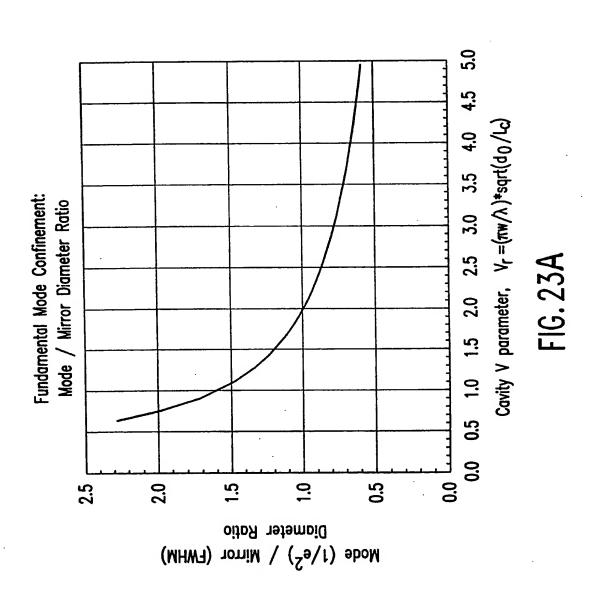
Inventor: Mark E. Kuznetsov



Inventor: Mark E. Kuznetsov







Inventor: Mark E. Kuznetsov

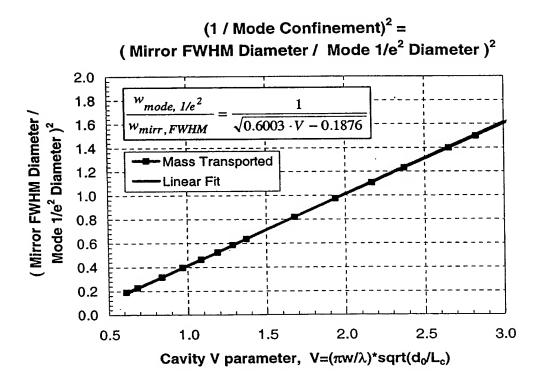
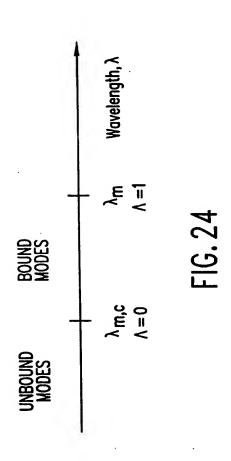
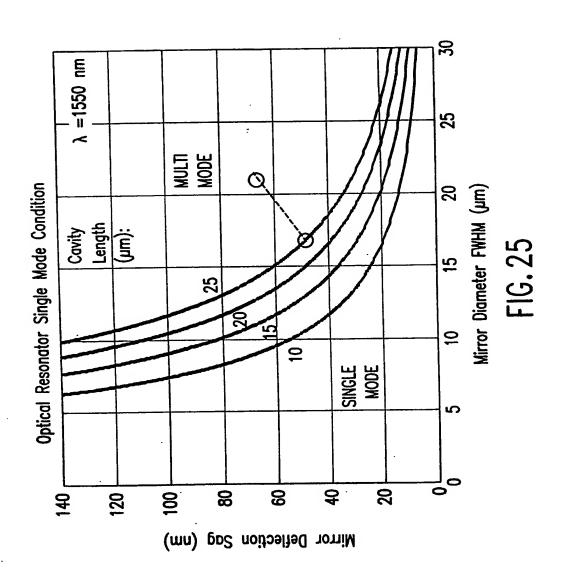


Fig. 23B

25/61



26/61



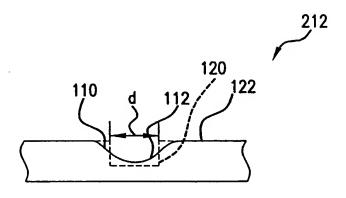


FIG. 26

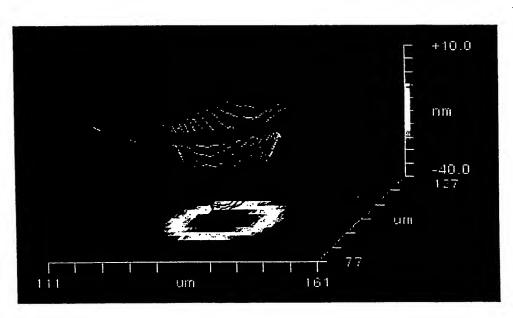
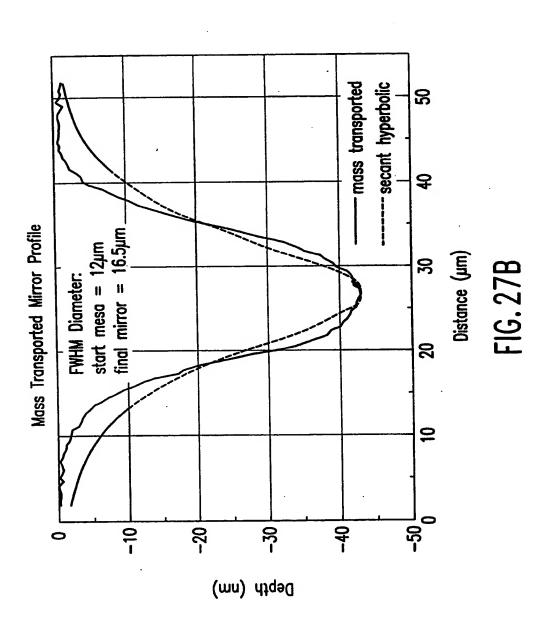
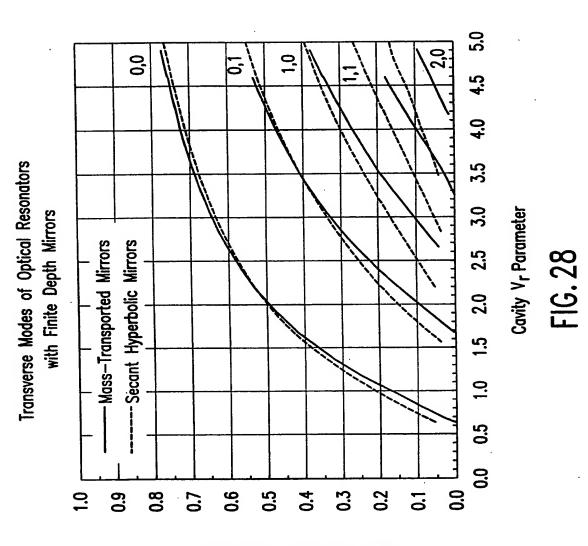


FIG.27A

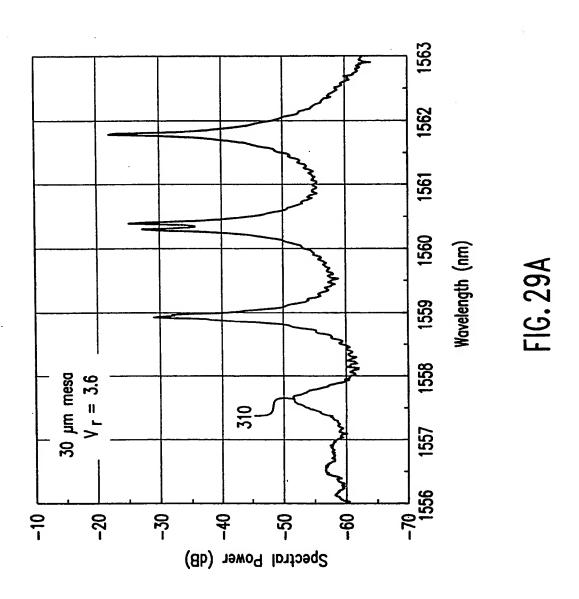
29/61



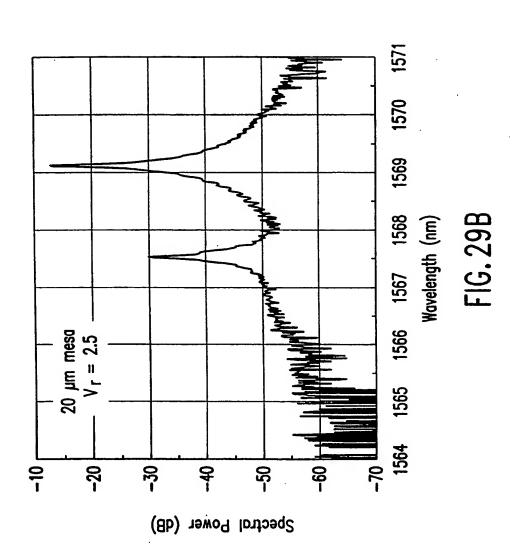
Inventor: Mark E. Kuznetsov



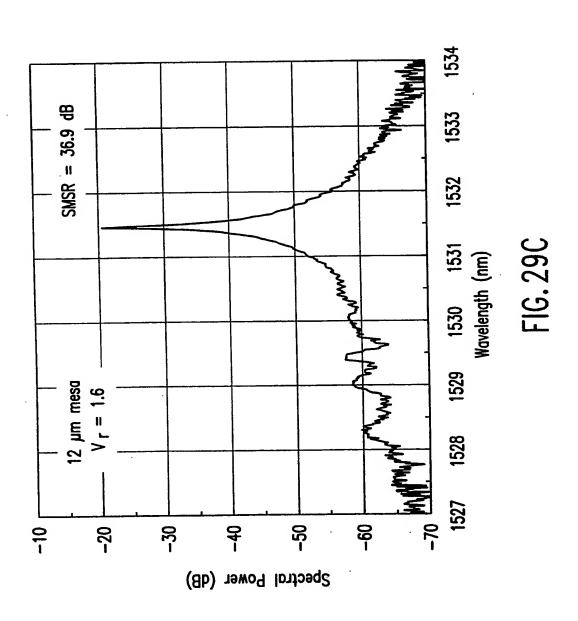
Mode Deflection Parameter A



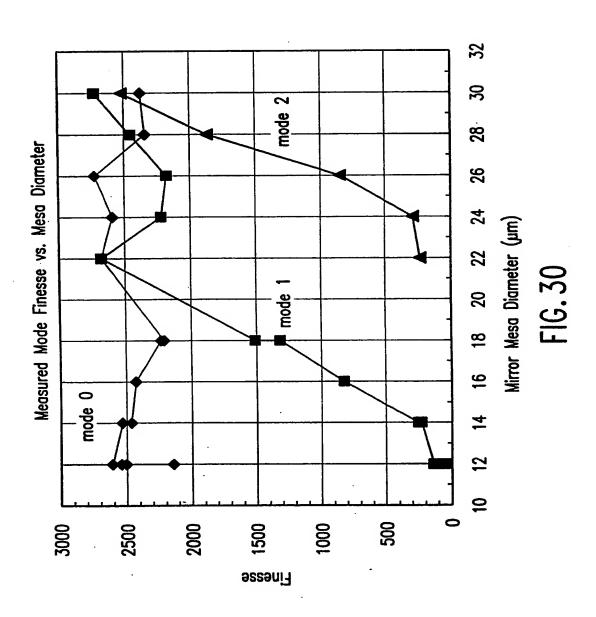
Inventor: Mark E. Kuznetsov

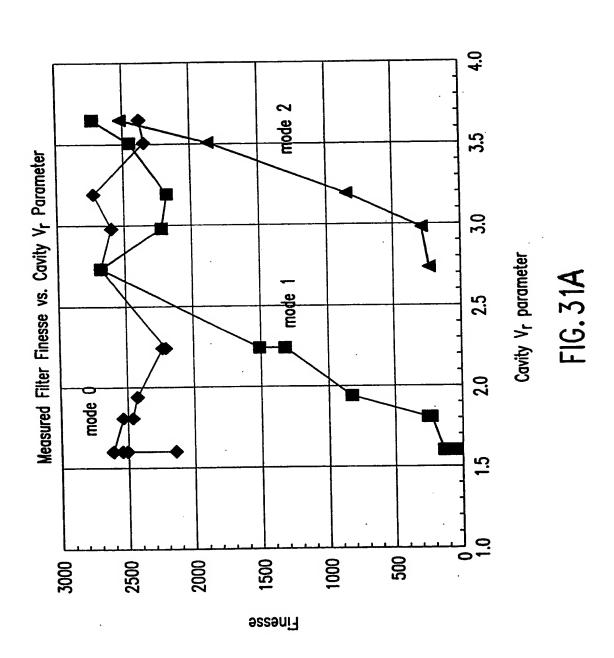


Inventor: Mark E. Kuznetsov



Inventor: Mark E. Kuznetsov





Inventor: Mark E. Kuznetsov

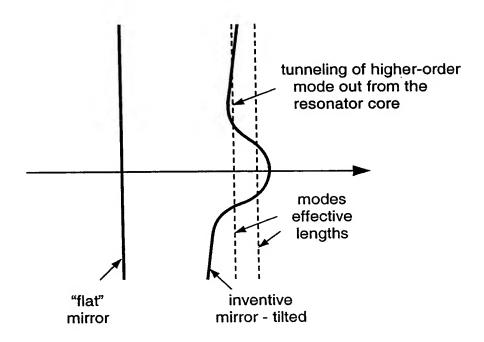


Fig. 31B

Inventor: Mark E. Kuznetsov

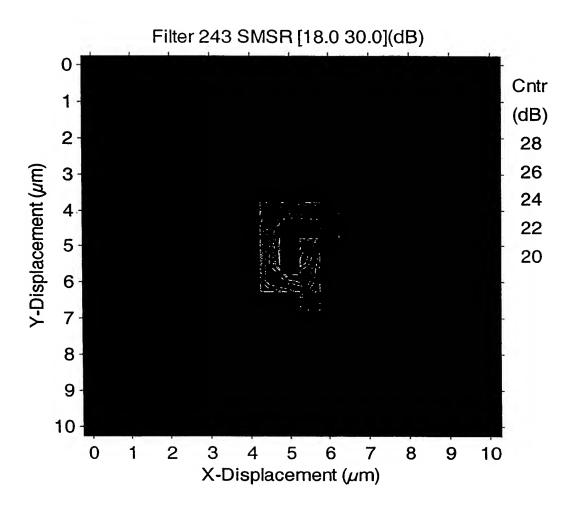


FIG. 32A

Inventor: Mark E. Kuznetsov

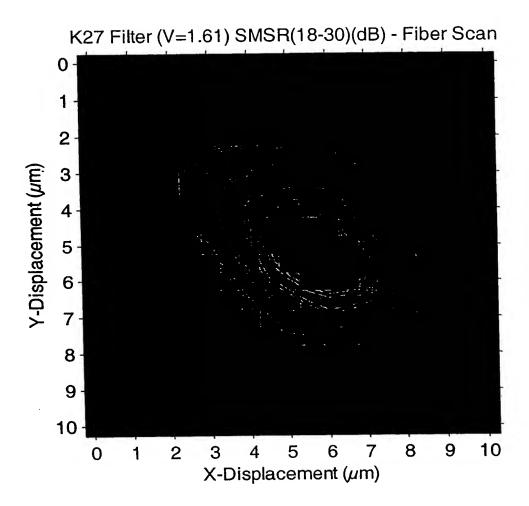


FIG. 32B

Inventor: Mark E. Kuznetsov

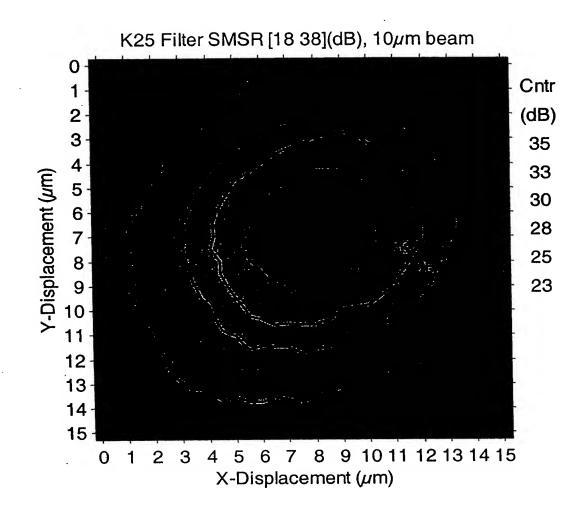


FIG. 32C

Fabry-Perot Filter With Intracavity Loss: Insertion Loss vs. Normalized Finesse

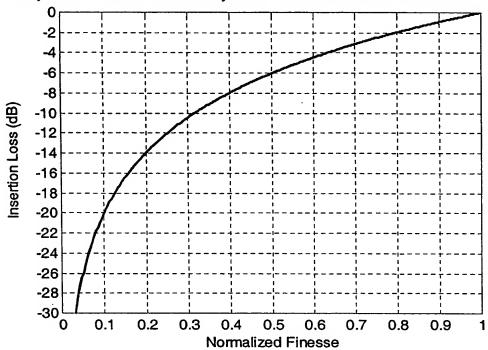


FIG. 32D

41/61

## SMSR Displacement Sensitivity (Model: mode $1/e^2$ dia.=17 $\mu$ m)

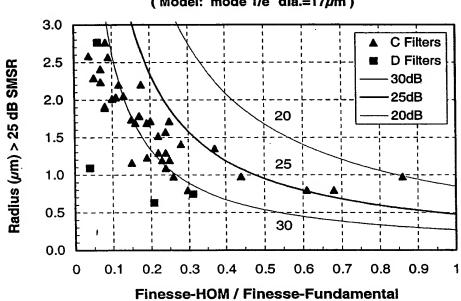
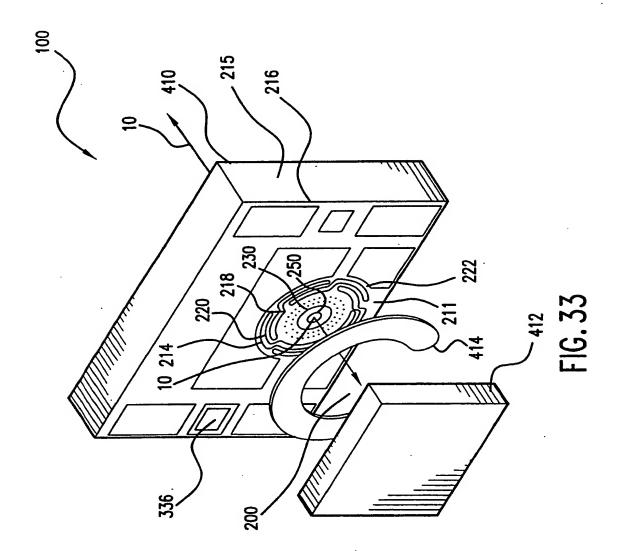
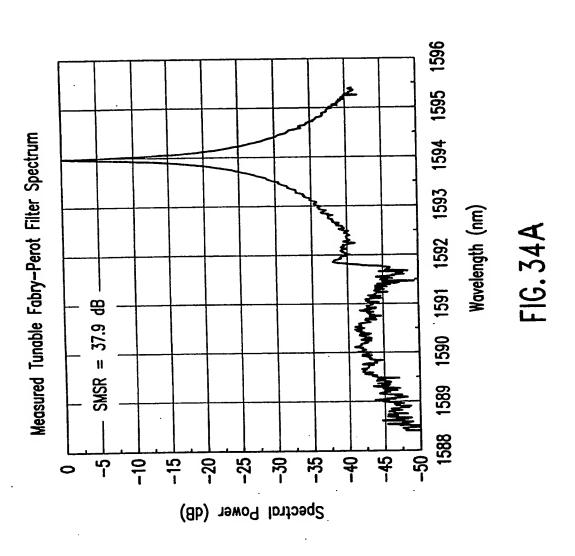


FIG. 32E





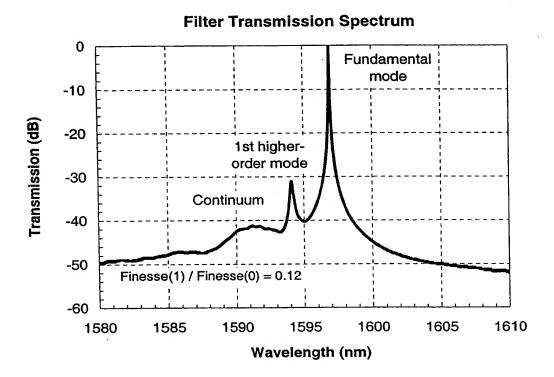
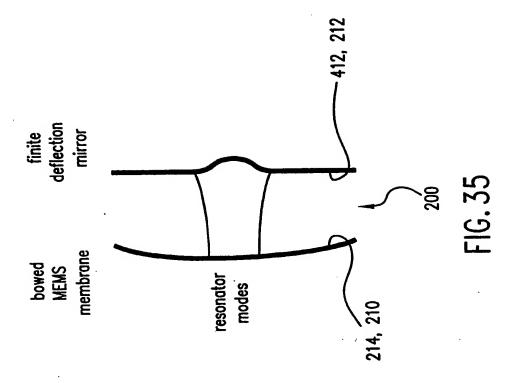
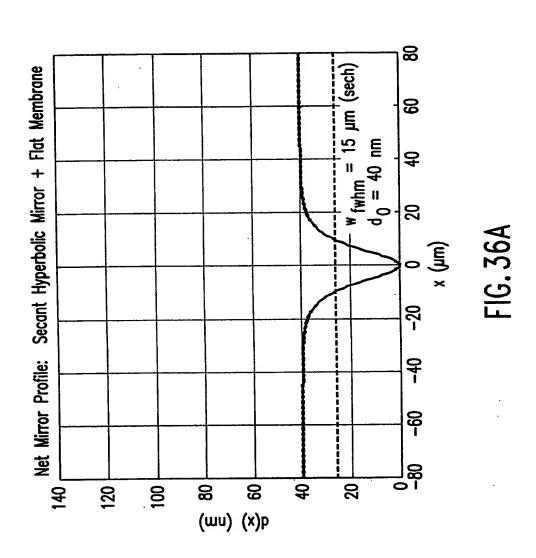
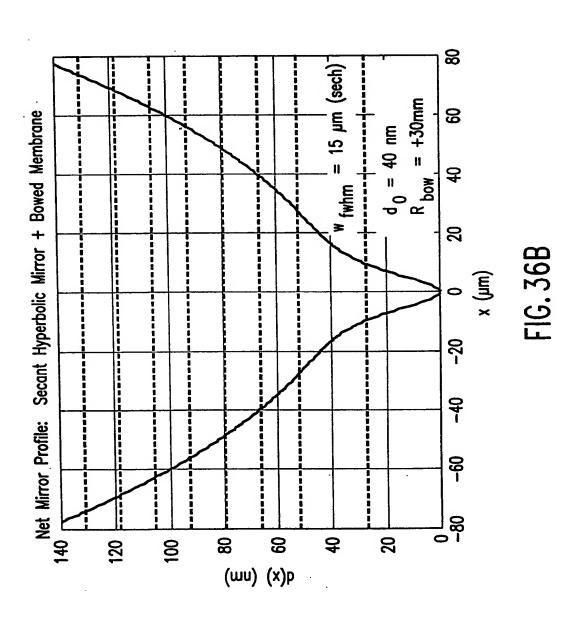


Fig. 34B

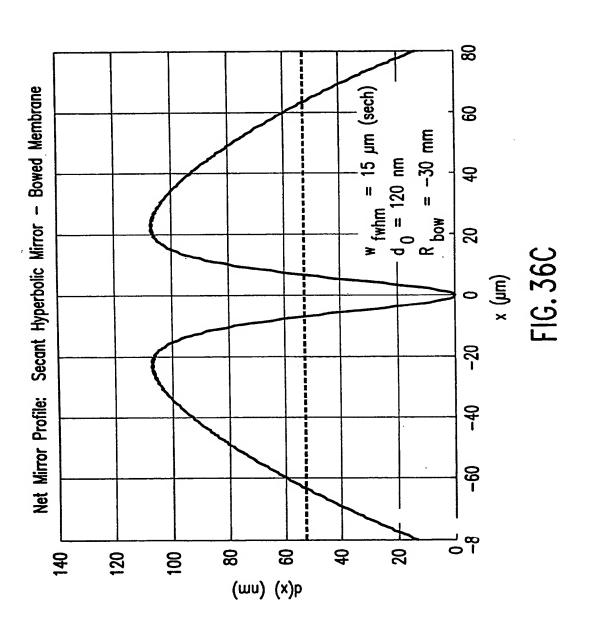


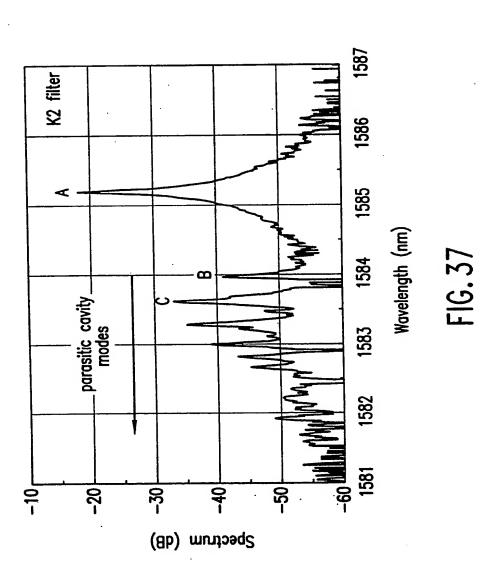


Inventor: Mark E. Kuznetsov



Inventor: Mark E. Kuznetsov





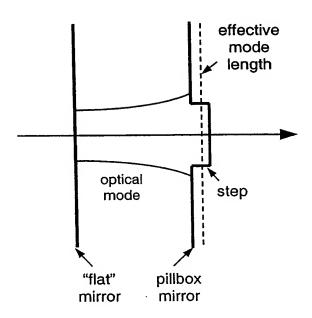


Fig. 38

Inventor: Mark E. Kuznetsov

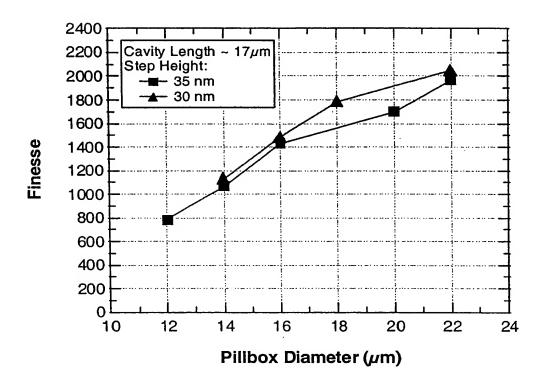


Fig. 39

Inventor: Mark E. Kuznetsov

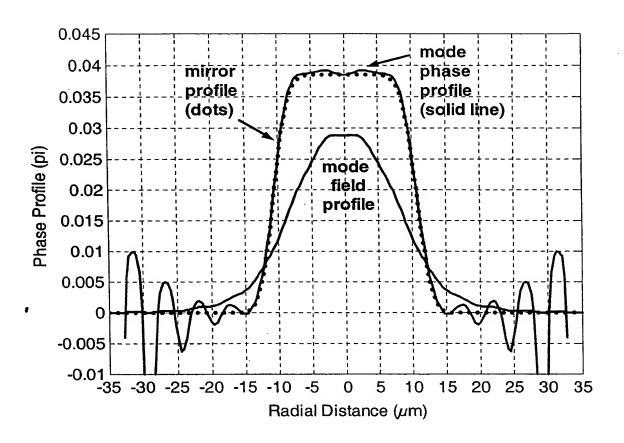


Fig. 40

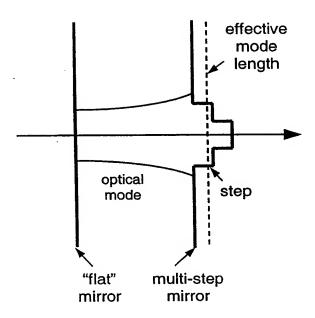


Fig. 41

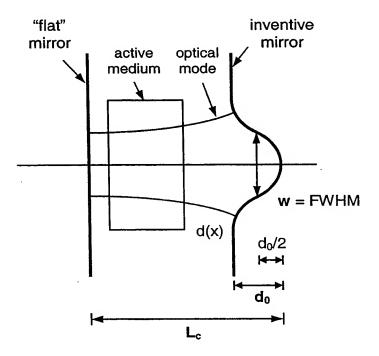


Fig. 42

55/61

## **Single Transverse Mode Optical Resonator**

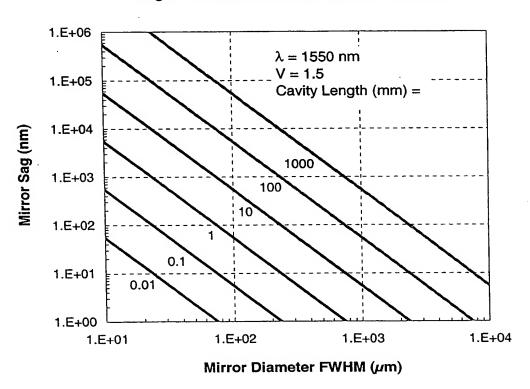


Fig. 43

Inventor: Mark E. Kuznetsov

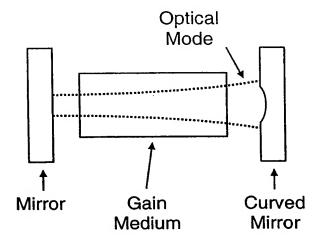


Fig. 44A

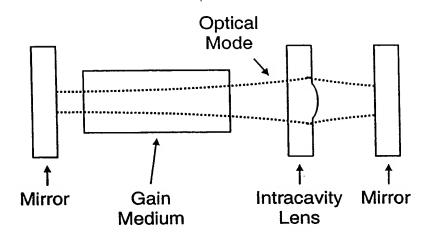


Fig. 44B

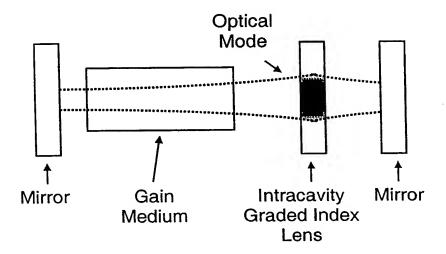


Fig. 44C

Inventor: Mark E. Kuznetsov

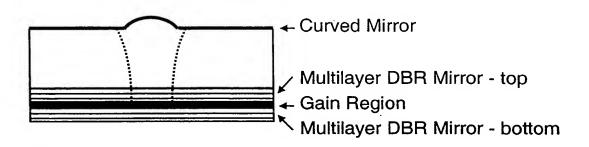


Fig. 45A

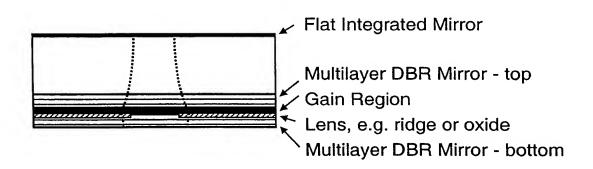


Fig. 45B

Inventor: Mark E. Kuznetsov

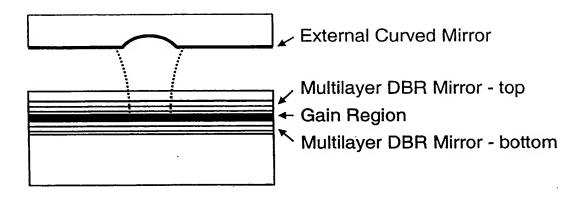


Fig. 46A

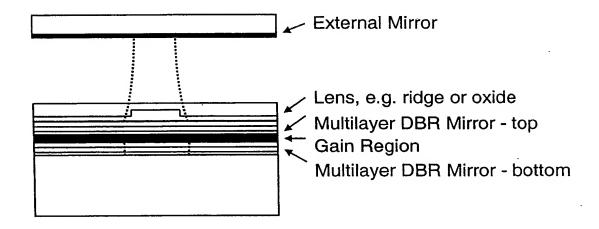


Fig. 46B

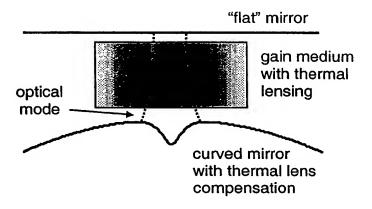


Fig. 47

Inventor: Mark E. Kuznetsov

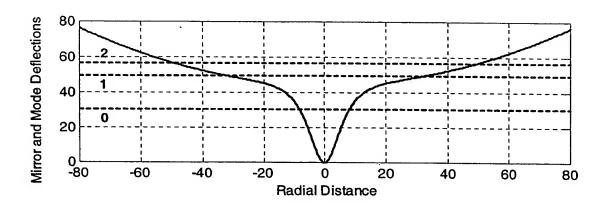


Fig. 48A

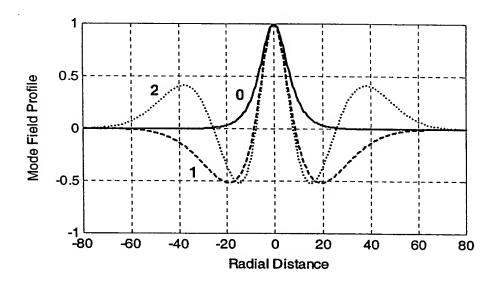


Fig. 48B